bsm-77002M **[Primary Antibody]**

PIK3R1 (animal-free) Mouse mAb

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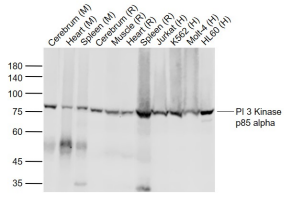
DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 5C11
GeneID: 18708
SWISS: P26450
Target: PIK3R1 (animal-free)
Immunogen: Recombinant mouse PI3K p85 Protein: 1-110/724.
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: The enzyme phosphatidylinositol 3 kinase (PI3 kinase) is a lipid kinase that generates phosphatidylinositol 3, 4, 5-triphosphate in response to receptor activation in many signal transduction pathways. Class IA PI3Ks exist as a heterodimer of a catalytic 110 kDa (p110) and a regulatory p85 subunit (e.g. p85 alpha). p85 alpha is an adaptor molecule that regulates the activity of the catalytic p110 subunit by binding to phosphorylated receptor tyrosine kinases (RTKs) through its SH2 domain and mediating the interaction between p110 and the plasma membrane. p85 alpha is necessary for insulin-stimulated increase in glucose uptake and glycogen synthesis in insulin-sensitive tissues.

Applications: **WB** (1:500-2000)
Reactivity: Human, Mouse, Rat
Predicted MW.: 80 kDa
Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Mouse Heart tissue lysates Lane 3: Mouse Spleen tissue lysates Lane 4: Rat Cerebrum tissue lysates Lane 5: Rat Muscle tissue lysates Lane 6: Rat Heart tissue lysates Lane 7: Rat Spleen tissue lysates Lane 8: Human Jurkat cell lysates Lane 9: Human K562 cell lysates Lane 10: Human Molt-4 cell lysates Lane 11: Human HL60 cell lysates Primary: Anti-PI 3 Kinase p85 alpha (bsm-77002M) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 80 kD Observed band size: 80 kD

SELECTED CITATIONS

- **[IF=3.24]** Jing Hu. et al. Investigation of the active ingredients and pharmacological mechanisms of Porana sinensis Hemsl. Against rheumatoid arthritis using network pharmacology and experimental validation. Plos One. 2022 Mar;17(3):e0264786 WB ;Rat. 35235611